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🐙 github.com/ad77

Education

Galgotias College of Engineering & Technology

2021 – 2025

Bachelor of Technology in Computer Science & Design — CGPA: 7.2

Greater Noida, India

Arunodaya Public School

2020 – 2021

Class XII from Central Board of Secondary Education — 85%

Delhi, India

Projects

Chat with PDF

September 2024

RAG (Retrieval-Augmented Generation), Streamlit, Python, Llama 3, Langchain

github.com/ad77/pdfchat

- Implemented **RecursiveCharacterTextSplitter** for dividing PDF content into chunks for better processing
- Used **LlamaParse API** to parse and convert the PDF files into markdown format for document analysis
- Implemented **Qdrant** for efficient embedding storage and retrieval, enabling faster responses to user questions
- Set up a custom **QA chain** with a retriever-compression model for accurate, context-aware answers from PDFs

AI Voice Assistant

August 2024

Python, Groq, Llama 3, gTTS, WebRTC

github.com/ad77/voice-assistant-

- Developed a voice assistant using Python, integrating Groq to **reduce inference time to 2-3 seconds**
- Built a pipeline for recording, transcription (distil-whisper-large-v3-en), LLM response, and TTS using gTTS
- Integrated **WebRTC for client-server setup**, enabling scalable interactions with the voice assistant system

Tab - AI Wearable Device

June 2024

Raspberry Pi Zero, Python, LLM

github.com/ad77/tab

- Developed an AI-powered wearable device using **Raspberry Pi Zero W** for real-time conversation processing
- Built a web app with Next.js and integrated **Supabase** for database management and compute functions
- Utilized **Mistral/GPT-3.5** as LLM, **Whisper V3**, and GPT-3.5 to transcribe and analyze conversations, offering proactive suggestions

brain_pump

July 2023

Java, XML, OpenAI GPT-3.5 Turbo, Android Studio

github.com/ad77/brainpump

- Implemented chat-based UI for interacting with GPT-3.5 turbo, Focused on UI and seamless API integration

Technical Skills

Languages: Python, C++, SQL

Technologies: Transformer Architecture(LLM), RAG, Chain-of-thought, NumPy, TensorFlow, PyTorch, OpenCV, nltk, LangChain, Llama Index, Streamlit, Git version control, Cursor

Areas of Interest: Transformers, Agentic Workflows, Agent Architectures & Applications, Machine Learning, Deep Learning(Neural Networks), RL, Generative AI

Certifications

Machine Learning Specialization Grade: 98%

2024

DeepLearning.ai & Stanford Online (Supervised Learning, Advanced Learning Algorithms, Unsupervised Learning) Certificate

Involvement

Delegate, Harvard Project for Asian and International Relations (HPAIR)

September 2022

IIIT, Delhi